明治二十年一月刊行

明治十九年三月廿三日出版屆濟

定價金拾三錢

觀測士 海軍五等技師 中川將行
觀測助手 海軍二等技手 伊藤直温
同 海軍屬 日比翁助
同 海軍屬 白井正信
同 海軍八等技手 小澤兼藏
同 海軍十等技手 永江董

(Signed) Observer.
M. Nakagawa.

Assistant.
N. Itō.
„ O. Hibi.
„ M. Shirai.
„ K. Ozawa.
„ T. Nagaye.

REMARKS.

Day.	
1	*f. p.*
2	*f. p.*; C. 3 p. m.—8 p. m.; H. at 6 p. m.
3	*f. p.*
4	*f. p.*; E. at 2 p. m.
5	*d.*, with B at intervals; M. in night.
6	*f. d.* in a. m.; C. in p. m.; R. 4 p. m.—9 p. m., E. at 0.45 p. m.
7	C., with B. at intervals; R. at 9.30 p. m.
8	*f. p.*; *d.* until day break.
9	*f. p.*
10	*f. d.* in day; *f. p.* in night.
11	*f. p.*; C. after 3 p. m.; R. after 9 p. m.
12	B. in a. m.; *f. p.* in p. m.
13	*f. p.*; B .C. after 10 p. m.; E. at 4.56 a. m.
14	C.; R. frequently after 2.10 p. m.; T. at 5 p. m.; H. at 8 p. m.; S. w_2. in night; barometer much falls.
15	C.; *f. p.* after 6 a. m.; S. W. w_2. until 4 p. m.
16	*f. p.*
17	*f. p.*
18	*f. p.*
19	*f. p.*
20	*f. p.*; *d.* 4 a. m.—10 a. m.
21	*f. p.*
22	*f. p.*; *d.* after 7 a. m.; S. at 0.30 p. m.
23	*f. d.* in day; *f. p.* in night.
24	*f. p.*
25	*f. p.*
26	*f. p.*; E. at 5.49 p. m.
27	*f. p.* C. after 6 p. m.; R. 9 p. m.—11 p. m.
28	*f. d.* in day; *f. p.* in night.
29	*f. p.*, E. at 11.4 a. m.
30	*f. p.*
31	*f. p.*

記事

一日	快晴
二日	快晴午後三時過ヨリ陰同六時頃暫時霰降リ同八時頃ヨリ復快晴
三日	晝夜快晴
四日	續テ快晴 午後二時頃地震ス
五日	薄陰時々晴夜來濃霧アリ
六日	午前薄晴午後陰同四時頃ヨリ同九時マテ降雨 午後零時四十五分頃地震ス
七日	陰時々晴午後九時三十分頃暫時微雨
八日	拂曉前薄陰爾後快晴
九日	晝夜快晴
十日	晝間薄晴夜間快晴
十一日	午後三時頃マテ快晴後漸々陰同九時頃ヨリ降雨
十二日	午前晴午後快晴
十三日	快晴午後十時過半晴 午前四時五十六分頃地震ス
十四日	陰午後二時十分頃ヨリ時々降雨同五時頃ヨリ雷鳴シ同八時頃暫時ノ間降雹夜來南風稍强風雨鹹殊ニ降下セリ
十五日	午前六時頃マテ陰爾後快晴午後四時頃マテ南西風稍强
十六日	晝夜快晴
十七日	續テ快晴
十八日	快晴
十九日	快晴
二十日	快晴午前四時過ヨリ同十時頃マテ薄陰
廿一日	晝夜快晴
廿二日	午前七時頃マテ快晴爾後薄陰午後零時三十分頃暫時ノ間降雪
廿三日	晝間薄晴夜間快晴
廿四日	快晴
廿五日	快晴
廿六日	快晴 午後五時四十九分頃地震ス
廿七日	快晴午後六時過ヨリ漸々陰同九時頃ヨリ同十一時頃マテ降雨
廿八日	晝間薄晴夜間快晴
廿九日	快晴 午前十一時四分頃地震ス
三十日	快晴
卅一日	快晴

地平磁針力
HORIZONTAL INTENSITY.

7th Beginning time 3h 0m P. M.; Ending 4 26

七日午後三時零分ヨリ同四時二十六分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A (° ′ ″)	B (′ ″)	Mean. (′ ″)	No.	A (° ′ ″)	B (′ ″)	Mean (′ ″)
東 East.	E.	1	182 30 0	29 20	29 40				
	W.					2	175 51 20	50 40	51 0
	E.	3	182 30 20	29 40	30 0				
	W.					4	175 52 0	51 20	51 40
	E.	5	182 30 20	29 40	30 0				
均平 Means		182° 29′ 53″.3				.... 175° 51′ 20″.0			
西 West.	W.					6	175 48 20	47 40	48 0
	E.	7	182 22 40	22 0	22 20				
	W.					8	175 48 0	47 20	47 40
	E.	9	182 23 0	22 0	22 30				
	W.					10	175 48 0	47 20	47 40
均平 Means.		182° 22′25.″0				.... 175° 47′ 46″.7			

度温均平 Mean Temperature $t = 56^\circ.9$ fah.

角針偏 Angle of Deflection $u = 3^\circ 18' 17''.9$

時振搖 Oscillations.

數振 No. of Osc.	時測 Time. (h m s)	度温 Temp. (°)	數閲視之端兩度尺 Extreme Scale-readings.		時之振百 Time of 100 Oscillations. (m s)
0	4 13 40.0	56.9	3.2	56.8	
10	14 24.3				
20	15 9.2				
31	15 58.0				
41	16 42.5				
51	17 27.2				
100	21 5.8				7 25.8
110	21 50.0				25.7
120	22 34.5				25.3
131	23 24.0				26.0
141	24 8.5				26.0
151	24 53.2	57.0	15.2	43.7	26.0
均平 Means.		57.0	....		7 25.80

差捩拗 Mean effect of 90° of Torsion $v = 1.98$

差日儀時 Daily rate $s = 1^s.88$ losing.

果成 Resulting absolute value $X = 6.3208$

19th Beginning time 3h 30m P. M.; Ending 4 33

十九日午後三時三十分ヨリ同四時三十三分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A (° ′ ″)	B (′ ″)	Mean. (′ ″)	No.	A (° ′ ″)	B (′ ″)	Mean. (′ ″)
東 East.	E.	1	302 41 0	40 20	40 40				
	W.					2	296 3 40	3 10	3 25
	E.	3	302 41 20	40 20	40 50				
	W.					4	296 4 20	3 30	3 55
	E.	5	302 41 40	41 0	41 20				
均平 Means.		302° 40′ 56″.7				.... 296° 3′ 40″.0			
西 West.	W.					6	296 0 40	0 0	0 20
	E.	7	302 34 20	33 50	34 5				
	W.					8	296 0 50	0 0	0 25
	E.	9	302 34 40	34 0	34 20				
	W.					10	296 1 0	0 10	0 35
均平 Means.		302° 34′ 22″.5				.... 296° 0′ 26″.7			

度温均平 Mean Temperature $t = 54^\circ.9$ fah.

角針偏 Angle of Deflection $u = 3^\circ 17' 48.''1$

時振搖 Oscillations.

數振 No. of Osc.	時測 Time. (h m s)	度温 Temp. (°)	數閲視之端兩度尺 Extreme Scale-readings.		時之振百 Time of 100 Oscillations. (m s)
0	4 21 36.5	53.5	4.7	54.3	
10	22 21.2				
20	23 5.7				
31	23 54.9				
41	24 39.0				
51	25 23.8				
100	29 2.1				7 25.6
110	29 47.0				25.8
120	30 31.0				25.3
131	31 20.3				25.4
141	31 4.8				25.8
151	32 49.0	53.0	17.8	41.8	25.2
均平 Means.		53.0	....		7 25.52

差捩拗 Mean effect of 90° of Torsion $v = 2.51$

差日儀時 Daily rate $s = 2.^s18$ losing.

果成 Resulting absolute value $X = 6.3316$

磁氣觀測之月報

東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 1.2	5	4 9.2	9	4 11.5	13	4 10.7	17	4 11.0	21	4 11.1	25	4 11.5	29	4 10.6
2	4 8.3	6	4 7.2	10	4 11.4	14	4 11.2	18	4 11.3	22	4 11.5	26	4 10.4	30	4 11.5
3	4 9.8	7	4 7.0	11	4 10.4	15	4 11.3	19	4 10.9	23	4 11.7	27	4 13.6	31	4 10.5
4	4 9.0	8	4 11.9	12	4 9.5	16	4 12.2	20	4 10 3	24	4 11.5	28	4 12.1		

平均 Mean = 4° 10′.36

磁氣傾差
Magnetic Inclination.

7th Beginning / Ending time 4^h 50^m / 5 20 P. M. 七日午後四時五十分ヨリ同五時二十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圏 Circle E.				西面圏 Circle W.				西面圏 Circle W.				東面圏 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 57	49 55	49 35	49 35	48 58	48 57	49 27	49 22	49 22	49 24	49 31	49 35	49 44	49 47	50 6	50 9
49 49	49 49	50 0	49 58	49 34	49 32	49 28	49 21	49 33	49 38	49 24	49 27	49 59	50 1	49 45	49 48
49 53.0	49 52.0	49 47.5	49 46.5	49 16.0	49 14.5	49 27.5	49 21.5	49 27.5	49 31.0	49 27.5	49 31.0	49 51.5	49 54.0	49 55.5	49 58.5
49 52.5		49 47.0		49 15.3		49 24.5		49 29.3		49 29.3		49 52.8		49 57.0	
49 49.7				49 19.9				49 29 3				49 54.9			
49 34.8								49 42.1							

成果 Resulting Dip = 49° 38′.5

19th. Beginning / Ending time 5^h 0^m / 5 30 P. M. 十九日午後五時零分ヨリ同五時三十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圏 Circle E.				西面圏 Circle W.				西面圏 Circle W.				東面圏 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 46	49 45	50 17	50 16	49 5	49 4	50 0	49 55	49 31	49 32	49 12	49 13	50 0	50 1	49 38	49 42
49 47	49 45	50 17	50 16	49 5	49 3	49 56	49 51	49 29	49 30	49 12	49 12	50 13	50 14	49 37	49 41
49 46.5	49 45 0	50 17.0	50 16 0	49 5.0	49 3.5	49 58.0	49 53.0	49 30.0	49 31.0	49 12 0	49 12 5	50 6.5	50 7 5	49 37.5	49 41 5
49 45.8		50 16.5		49 4 3		49 55.5		49 30.5		49 12 3		50 7.0		49 39.5	
50 1.1				49 29.9				49 21.4				49 53.2			
49 45.5								49 37.3							

成果 Resulting Dip = 49° 41′.4

天候

WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 卷雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus.	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	1	1	...	...	2	...	...	...	...	...	4	1.4	...
2	...	1	...	4	...	...	...	...	...	...	3	2.0	...
3	...	2	...	1	...	...	...	...	...	...	5	0.4	...
4	...	...	...	...	...	2	...	...	...	...	6	0.5	...
5	...	...	...	...	...	8	...	...	...	...	...	7.0	...
6	...	...	1	2	2	1	...	2	...	...	...	8.1	...
7	...	2	...	6	...	...	...	...	...	...	...	8.0	0.17
8	...	3	...	4	...	...	...	...	...	...	1	3.0	...
9	...	...	...	...	...	...	...	...	...	...	8	0.0	...
10	...	1	...	2	1	...	...	...	...	...	4	2.1	...
11	1	...	...	3	...	...	...	1	...	...	3	4.4	...
12	...	...	...	...	...	2	...	...	...	...	6	1.6	0.01
13	...	...	...	1	...	...	...	...	...	...	7	0.6	...
14	...	3	...	2	...	2	...	1	...	...	...	8.9	...
15	1	1	1	...	...	1	...	...	...	...	4	2 6	0.80
16	...	3	...	...	...	...	...	...	...	...	5	0.4	...
17	...	...	...	...	...	...	...	...	...	...	8	0.0	...
18	...	1	...	...	...	...	...	...	...	...	7	0.1	...
19	...	...	...	4	...	...	...	...	...	...	4	0.8	...
20	...	...	...	2	...	...	...	...	...	...	6	2.3	...
21	...	...	...	...	...	...	...	...	...	...	8	0.0	...
22	...	1	5	...	1	...	...	...	...	...	1	7.4	...
23	1	...	1	2	3	...	...	...	...	...	1	6.5	...
24	...	...	...	...	...	...	...	...	...	...	8	0.0	...
25	...	...	...	1	2	...	...	...	...	...	5	0.4	...
26	...	...	1	2	2	...	...	...	...	...	3	1.1	...
27	2	1	1	1	1	1	...	...	...	...	1	4.4	...
28	...	1	1	4	2	...	...	...	...	...	...	6.8	...
29	...	...	...	1	...	1	...	...	...	...	6	0.4	...
30	...	...	...	1	...	...	...	...	...	...	7	0.1	...
31	...	...	...	2	...	...	...	...			6	0.4	...
合計 Sums.	6	21	11	45	16	18	...	4	...	...	127	...	0.98
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	2.6	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	16	68.1	3	19 2	...	...	...	...	...	...	1	8.5	1	5.2	3	12.4	24	113.4	N.	10.5
2	...	8	71.1	2	12.4	4	17.4	...	...	...	...	...	...	1	8.4	9	109.9	24	219.2	N.W.	16.8
3	...	11	82.7	...	...	...	...	...	...	...	...	...	...	...	...	13	140.0	24	222.7	N.W.	21.0
4	...	16	106.2	...	...	...	...	...	...	...	...	...	...	...	...	8	42.0	24	148.1	N.	12.8
5	...	14	47.9	...	...	...	...	...	...	...	...	...	...	...	...	10	28.0	24	75.9	N.	6.8
6	...	22	93.1	...	...	...	..	...	...	...	...	...	...	...	...	2	13.3	24	106.4	N.	9.9
7	...	...	...	1	1.5	...	...	4	16.7	6	70.0	2	17.0	1	7.0	10	71.5	24	183.7	S.	16.7
8	...	7	28.7	1	3.2	5	32 3	1	4.9	...	...	9	110.2	...	...	1	6.0	24	185.3	S.W.	17.4
9	...	5	21.0	...	...	...	...	...	...	...	...	16	150.3	1	5.7	2	12.2	24	189.2	S.W.	13.3
10	...	...	...	...	...	...	...	3	10.4	1	20.5	10	142.2	...	...	10	37.4	24	210.5	S.W.	25.6
11	...	11	47.4	4	19.6	3	7.9	...	...	...	...	...	...	...	...	6	17.5	24	92.4	N.W.	6.7
12	1	1	4.3	...	...	...	...	...	...	6	28.4	1	2.8	1	2.6	14	70.8	24	108.9	N.W.	9.7
13	...	8	46.1	3	18.1	...	...	8	31.9	...	...	...	...	...	...	5	22.0	24	118.1	N.	8.7
14	3	1	0.2	...	...	1	5.3	2	8.2	8	129.1	2	50.9	...	...	7	42.7	24	236.4	S.	33.7
15	...	...	...	...	...	...	...	...	...	...	...	15	392.9	9	110.1	...	...	24	503.0	S.W.	* 35.8
16	...	...	...	...	...	...	...	...	...	...	...	8	134.6	12	77.3	4	10.6	24	222.5	S.W.	23.1
17	1	...	...	1	3.3	3	12.7	4	23.5	2	7.2	...	...	2	3.1	11	44.5	24	94.3	S.E.	7.1
18	1	10	45.8	1	2.4	...	...	...	...	...	...	...	...	...	...	12	22.9	24	71 1	N.	9.8
19	6	8	27.9	...	...	1	2.3	5	15.1	...	...	...	...	...	...	4	3.0	24	48.3	N.	6.8
20	7	3	11.5	...	...	1	1.4	3	12.3	8	40.6	2	2.9	...	...	...	...	24	68.7	N.	7.4
21	...	..	...	...	...	...	...	1	3.2	7	25.7	7	15.0	4	4.5	5	6.9	24	55.3	S.	5.7
22	..	22	162.6	...	...	...	...	...	...	...	...	1	2.4	...	...	1	2.9	24	167.9	N.	18.7
23	2	16	58.0	...	...	1	2.7	5	13.7	...	...	...	...	...	...	...	...	24	74.4	N.	7.4
24	2	19	171.0	...	...	...	...	...	...	...	...	...	...	...	...	3	38.8	24	209.8	N.	16.7
25	...	15	182.5	...	...	...	...	...	...	...	...	...	...	...	...	9	107.7	24	290.2	N.	20.9
26	...	4	37.5	20	132.9	...	...	...	...	...	...	...	...	...	...	...	...	24	170.4	N.E.	11.4
27	...	21	68.4	3	15.2	...	...	...	...	...	...	...	...	...	...	...	...	24	83.6	N.E.	5.5
28	1	17	52.4	...	...	3	3.3	3	4.6	...	...	...	...	...	...	...	...	24	60.3	N.	6.6
29	...	3	10.0	...	...	...	...	...	...	...	...	...	...	18	61.8	3	9.1	24	80.9	W.	7.3
30	1	8	41.1	1	8.7	2	8.9	...	...	2	10.1	...	...	1	1.6	9	18.7	24	89.1	N.	11.6
31	1	22	176.6	...	...	...	...	...	...	...	...	...	...	...	...	1	2.9	24	179.5	N.	14.9
計合 Sums.	26	288	1662.0	40	236.5	24	94.2	39	144.5	40	331.6	74	1029.7	51	287.3	162	893.7	744	4679.5	..	...
極强 Max.	...	..	...	...	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.W.	35.8

濕氣百分數
HUMIDITY.
(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	71	73	68	60	44	76	88	71
2	61	69	54	47	51	57	70	83
3	70	67	49	42	46	69	80	74
4	78	74	49	47	46	71	77	77
5	77	78	71	62	62	82	88	86
6	88	74	65	58	62	69	90	85
7	83	91	78	70	82	64	77	78
8	88	81	57	49	51	56	56	58
9	60	55	52	41	40	63	64	65
10	66	82	71	60	50	63	75	78
11	71	78	64	53	52	61	68	84
12	89	91	72	48	56	82	77	68
13	80	75	65	50	51	78	87	84
14	82	90	80	65	88	88	82	87
15	55	45	54	46	43	43	50	57
16	59	60	53	48	46	58	66	74
17	72	76	55	57	58	77	74	85
18	82	95	87	54	47	60	78	74
19	80	89	57	56	55	77	75	71
20	79	85	80	59	59	75	90	97
21	84	77	63	47	59	65	78	84
22	70	66	56	49	50	55	62	67
23	73	67	72	55	60	82	66	66
24	73	100	57	50	43	54	59	60
25	56	98	49	44	44	58	65	62
26	64	69	67	56	54	64	70	65
27	71	88	69	50	55	79	70	83
28	72	74	74	60	66	81	84	79
29	83	83	68	47	46	55	72	66
30	93	58	58	53	46	51	59	59
31	55	56	56	49	48	56	54	49
平均 Means.	74	76	64	53	54	65	73	73

蒸發力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.154	0.134	0.168	0.208	0.215	0.208	0.198	0.164
2	0.156	0.166	0.156	0.158	0.185	0.174	0.167	0.156
3	0.118	0.122	0.120	0.125	0.140	0.155	0.154	0.149
4	0.143	0.119	0.120	0.162	0.171	0.179	0.170	0.141
5	0.133	0.128	0.148	0.169	0.178	0.185	0.168	0.151
6	0.148	0.135	0.181	0.201	0.216	0.215	0.241	0.230
7	0.239	0.251	0.276	0.318	0.348	0.290	0.319	0.333
8	0.277	0.247	0.211	0.241	0.226	0.187	0.152	0.143
9	0.126	0.117	0.151	0.170	0.180	0.174	0.153	0.133
10	0.119	0.131	0.183	0.238	0.210	0.218	0.209	0.184
11	0.160	0.131	0.160	0.192	0.199	0.191	0.197	0.222
12	0.214	0.202	0.206	0.202	0.223	0.223	0.206	0.172
13	0.166	0.160	0.177	0.194	0.214	0.225	0.238	0.188
14	0.174	0.186	0.210	0.279	0.356	0.431	0.424	0.324
15	0.247	0.178	0.194	0.189	0.171	0.124	0.128	0.118
16	0.118	0.107	0.136	0.168	0.176	0.162	0.144	0.134
17	0.131	0.121	0.130	0.196	0.202	0.201	0.166	0.158
18	0.137	0.140	0.168	0.215	0.184	0.166	0.174	0.141
19	0.136	0.135	0.134	0.219	0.220	0.200	0.173	0.158
20	0.145	0.149	0.178	0.214	0.220	0.209	0.224	0.186
21	0.153	0.131	0.177	0.214	0.209	0.238	0.221	0.205
22	0.188	0.149	0.154	0.156	0.159	0.159	0.154	0.148
23	0.131	0.121	0.146	0.169	0.188	0.193	0.153	0.133
24	0.117	0.141	0.129	0.166	0.145	0.132	0.132	0.133
25	0.125	0.172	0.140	0.149	0.153	0.156	0.146	0.136
26	0.132	0.125	0.146	0.158	0.163	0.154	0.143	0.115
27	0.114	0.124	0.110	0.146	0.171	0.190	0.163	0.168
28	0.136	0.131	0.148	0.209	0.226	0.226	0.215	0.179
29	0.159	0.146	0.176	0.188	0.181	0.169	0.148	0.119
30	0.130	0.087	0.130	0.192	0.157	0.128	0.110	0.098
31	0.098	0.089	0.128	0.154	0.145	0.127	0.114	0.107
平均 Means.	0.152	0.144	0.161	0.192	0.200	0.193	0.184	0.165

日次 Date.	露點温度 DEW POINT. 午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	28.1	24.9	30.1	35.5	36.4	35.5	34.3	29 6
2	28.4	29.0	28.5	28.8	32.6	31.1	30.0	28.5
3	22.1	22.8	22.5	23.4	25.8	28.3	28.4	27.4
4	26.4	22 2	22.5	29.3	30.6	31.8	30.5	26.0
5	24.7	23.9	27.2	30.3	31.6	32.6	30.2	27.7
6	27.1	25.0	32.0	34.7	36.5	36.4	39.4	38.1
7	39.2	40.4	42.9	46.6	49.0	44.2	46 7	47.8
8	43 0	40.0	35.9	39.4	37.7	32.9	27.9	26.3
9	23.5	21.9	27.6	30.4	31.9	31.0	28.0	24.6
10	22.3	24.4	32.3	39.1	35.8	36.7	35.7	32.5
11	29.1	24.4	29.0	33.5	34.5	33.4	34.2	37.2
12	36.3	34.8	35.3	34.8	37.3	37.9	35.3	30.8
13	29.8	29.0	31.5	33.8	36.3	37.5	39.0	33.0
14	31.0	32.8	35.8	43.2	49.6	54.9	54.4	47.1
15	40.0	31.6	33.8	33.2	30.6	23.1	23.8	22.0
16	22.1	19.9	25.2	30.1	31.4	29 3	26.5	24.9
17	24.4	22.7	24 1	34.1	34.8	34.7	29.8	28.7
18	25.4	25.9	30.1	36.4	32.4	29.8	31.1	26.0
19	25.1	25.0	24.8	36.9	37.0	34.6	30.9	28.7
20	26.7	27.3	31.6	36.2	37.0	35.7	37.4	32.7
21	28.0	24.3	31.5	36.2	42 2	39.1	37.1	35.2
22	33.0	27.4	28.1	28.4	28.9	28.9	28.2	27.2
23	24.3	22.7	26.9	30.3	33.0	33.7	28.0	24.7
24	21.8	26.0	24.0	29.8	26 6	24.5	24.5	24.7
25	23.7	30.7	25.8	27.4	28.0	28.5	26.9	25.1
26	24.5	23.3	26.8	28.7	29.5	28.1	26.4	21 5
27	21.3	23.2	20.5	26.8	30.6	33.3	29.5	30.2
28	25.2	24 3	27.2	35.7	37 7	37.7	36.4	31.7
29	28.9	26.9	31.3	33.1	32.0	30.3	27.2	22 2
30	24.2	15.4	24.1	33.5	28 6	23.9	20.5	18.1
31	18.0	15.8	23.8	28.1	26.6	23.7	21.2	19.8
平均 Means.	27.3	26.2	28.8	33.2	34.0	33.0	31.6	29.0

日次 Date.	寒暑鍼 THERMOMETER. 午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	36.7	32.3	40.0	49.0	58.5	43.2	37.6	38.5
2	40.8	38.2	44.3	48.6	50.6	45.3	39.1	33.0
3	29.9	32.4	39.9	45.0	45.5	37.6	33.6	34.8
4	32.0	29.3	39.9	49.0	51.0	40.8	37.0	32.0
5	30.8	29.3	35.8	42.6	43.8	37.8	33.4	31.0
6	30.0	32.2	43.0	48.9	49.0	45.8	42.3	42.3
7	44.0	43.0	49.3	56.3	54.5	56.2	53.8	54.3
8	46.4	45.6	50.8	58.7	55.8	48.0	42.3	40.0
9	35.8	36.3	44.0	53.8	56.2	42.9	39.4	35.0
10	31.8	29.0	41.3	52.5	54.5	48.6	43.2	39.0
11	37.8	29.8	40.0	50.0	51.7	46.2	44.0	41.7
12	39.3	37.2	44.0	54.2	52.4	43.0	42.0	40.4
13	35.0	36.0	42.5	52.0	54.0	43.9	42.5	37.5
14	36.0	35.4	41.4	55.0	53.0	58.7	60.0	50.8
15	56.5	52.3	49.7	53.7	52.8	44.0	40.6	35.5
16	34.9	31.8	41.0	40.3	51.7	42.9	36.9	31.9
17	32.2	29.1	38.8	48.7	49.0	41.2	37.5	32.2
18	29.9	27.0	33.5	52.3	52.7	43.0	37.3	33.3
19	30.0	27.7	38.8	51.8	53.0	41.5	38.2	37.2
20	32.2	31.0	37.5	50.0	50.8	43.0	40.2	33.5
21	32.0	30.3	43.5	56.0	56.2	50.4	43.5	39.8
22	42.1	37.8	42.5	46.5	46.5	44.0	40.1	36.3
23	32.5	32.0	34.8	45.7	46.2	38.8	38.5	34.7
24	29.1	26.0	37.8	47.2	48.0	39.3	37.8	37.0
25	37.3	31.1	43.3	48.3	49.2	42.5	37.8	36.6
26	35.3	31.9	36.8	43.0	45.0	39.3	35.0	31.9
27	29.3	26.2	29.8	43.8	45.4	39.3	38.8	34.7
28	32.8	31.0	34.6	49.0	48.5	43.0	40.9	37.4
29	33.6	31.0	41.2	52.9	51.8	45.6	35.0	32.2
30	26.0	27.6	37.3	50.0	49.0	40.1	32.8	30.2
31	31.7	28.7	38.0	46.0	45.0	37.9	35.9	36.9
平均 Means.	35.0	32.9	40.5	50.0	50.7	43.7	39.9	36.8

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	30.006	30.017	29.993	29.901	29.815	29.816	29.837	29.825
2	29.866	29.940	30.005	29.975	29.949	29.950	29.966	29.962
3	29.946	29.970	30.030	30.071	30.079	30.153	30.220	30.239
4	30.226	30.299	30.341	30.311	30.289	30.304	30.307	30.291
5	30.258	30.226	30.225	30.135	30.069	30.037	30.049	30.050
6	30.066	30.127	30.153	30.120	30.074	30.068	30.084	30.001
7	29.956	29.957	29.956	29.875	29.797	29.755	29.736	29.660
8	29.644	29.701	29.727	29.701	29.688	29.697	29.755	29.785
9	29.812	29.862	29.956	29.956	29.990	30.036	30.073	30.080
10	30.072	30.112	30.119	30.019	29.987	29.967	29.977	29.985
11	30.004	30.040	30.072	30.034	30.003	29.977	30.019	30.008
12	29.976	29.971	29.906	29.956	29.938	29.991	30.056	30.107
13	30.151	30.197	30.275	30.261	30.223	30.246	30.229	30.195
14	30.122	30.131	30.075	29.929	29.790	29.588	29.448	29.410
15	29.428	29.464	29.538	29.539	29.511	29.595	29.671	29.713
16	29.740	29.813	29.805	29.763	29.735	29.826	29.909	29.912
17	29.957	30.047	30.117	30.079	30.029	30.002	29.993	29.984
18	29.956	29.937	29.968	29.944	29.952	30.007	30.043	30.046
19	30.033	30.041	30.082	30.040	30.008	30.045	30.066	30.074
20	30.065	30.090	30.101	30.048	29.978	29.971	29.968	29.965
21	29.940	29.956	29.988	29.932	29.875	29.855	29.847	29.824
22	29.845	29.903	29.940	29.922	29.894	29.913	29.920	29.907
23	29.878	29.874	29.921	29.850	29.819	29.815	29.840	29.856
24	29.877	29.904	29.966	29.920	29.905	29.966	30.004	30.031
25	30.040	30.056	30.080	30.049	30.023	30.055	30.075	30.070
26	30.057	30.069	30.163	30.140	30.106	30.113	30.137	30.134
27	30.128	30.134	30.148	30.099	30.051	30.036	30.025	29.983
28	29.934	29.892	29.894	29.788	29.768	29.771	29.753	29.766
29	29.760	29.770	29.818	29.812	29.797	29.848	29.881	29.877
30	29.889	29.905	29.942	29.900	29.884	29.910	29.934	29.910
31	29.902	29.910	29.956	29.914	29.906	29.936	29.974	29.978
平均 Means.	29.953	29.978	30.011	29.967	29.933	29.944	29.961	29.956

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level.			寒暑鍼 Thermometer.			露點温度 平均 Mean Temp. of Dew point.	蒸發力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat. =100).	無氣中日温度 高極 Vacuum solar radiation Max.	日温度 高極 Solar radiation Max.	地温度 低極 Terrestrial radiation Min.
	平均 Mean.	高極 Max.	低極 Min.	平均 Mean.	高極 Max.	低極 Min.						
	in	in	in	°	°	°	°	in		°	°	°
1	29.901	30.017	29.815	42.0	58.9	31.0	31.8	0.181	69	109.8	74.0	23.2
2	29.952	30.005	29.866	43.5	52.6	32.9	29.6	0.165	62	102.0	70.2	24.7
3	30.089	30.239	29.946	37.3	46.9	27.9	25.1	0.135	62	109.6	63.8	20.6
4	30.296	* 30.341	30.226	38.9	51.0	28.1	27.4	0.151	65	112.0	69.3	19.3
5	30.131	30.258	30.037	35.6	43.8	28.1	28.5	0.158	76	82.3	55.6	22.0
6	30.087	30.153	30.001	41.7	49.9	27.5	33.7	0.196	74	106.8	70.1	21.6
7	29.837	29.957	29.660	51.4	57.8	41.3	44.6	0.297	78	114.2	77.0	36.5
8	29.712	29.785	29.644	48.5	59.1	40.0	35.4	0.211	62	116.8	* 78.0	33.0
9	29.971	30.080	29.812	42.9	56.2	33.6	27.4	0.151	55	* 117.3	76.5	25.1
10	30.030	30.119	29.967	42.5	55.4	28.0	32.4	0.187	68	112.5	74.8	20.8
11	30.020	30.072	29.977	42.7	53.7	28.5	31.9	0.182	66	110.4	73.7	21.5
12	29.909	30.107	29,938	44.1	54.6	36.6	35.3	0.207	73	114.7	76.9	29.8
13	30.222	30.275	30.151	42.9	56.0	33.1	33.7	0.195	71	115.5	76.2	25.2
14	29.812	30.131	* 29.410	48.8	* 61.8	34.7	43.6	0.298	83	106.0	73.0	30.8
15	29.557	29.713	29.428	48.1	59.0	35.5	29.8	0.169	49	113.6	67,1	26.1
16	29.813	29.912	29.735	40.1	52.7	30.0	26.2	0.143	58	112.2	63.2	21.0
17	30.026	30.117	29.957	38.6	49.6	27.8	29.2	0.163	69	111.0	68.5	22.2
18	29.982	30.046	29.937	38.6	56.6	25.8	29.6	0.166	72	116.8	75.6	21.4
19	30.049	30.082	30.008	39.8	53.0	26.0	30.4	0.172	70	114.2	73.5	20.0
20	30.023	30.101	29.965	39.8	51.3	28.4	33.1	0.191	78	110.5	70.5	22.5
21	29.902	29.988	29.824	44.0	58.4	27.0	34.2	0.201	70	116.9	76.0	23.4
22	29.906	29.940	29.845	42.0	48.3	34.5	28.8	0.158	59	96.8	65.6	28.0
23	29.857	29.921	29.815	37.9	47.9	30.8	28.0	0.154	68	107.3	66.8	26.3
24	29.947	30.031	29.879	37.8	49.0	23.9	25.2	0.137	62	110.1	65.9	* 17.5
25	30.056	30.080	30.023	40.8	49.8	27.0	27.0	0.147	60	110.9	66,0	25.0
26	30.115	30.163	30.057	37.3	45.5	30.3	26.1	0.142	64	108.3	64.5	24.2
27	30.076	30.148	29.983	35.9	45.8	25.0	26.9	0.148	71	105.9	65.2	21.0
28	29.821	29.934	29.753	39.7	50.8	30.0	32.0	0.184	74	104.6	70.8	27.0
29	29.820	29.877	29.760	40.4	54.5	29.4	29.0	0.161	65	116.0	75.9	21.7
30	29.909	29.942	29.884	36.6	51.7	* 23.6	23.5	0.129	60	109.5	74.9	19.6
31	29.935	29.978	29.902	37.5	46.9	25.0	22.1	0.120	53	111.2	65.0	20.9
平均 Means.	29.963	...	...	41.2	...	...	30.4	0.174	67	...	...	...
至極 Max. & Min.	...	30.341	29.410	...	61.8	23.6	...	...	...	117.3	78.0	17.5

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、蒸發力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

一又雨雪ノ水積ハ每午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁針力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁氣ノ尺度一割分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模様 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

氣象及磁氣月報

東京

海軍水路部觀象臺

明治十九年十二月

MONTHLY REPORT

OF THE

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DURING

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AT THE

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IN THE

HYDROGRAPHIC OFFICE.

TOKIO.